

Abstract

A solid drill bit for machine tools has a drill bit body and two indexable inserts arranged at a radial distance from one another in respective insert seats. The inserts have an essentially quadratic contour. Their front-end main cutting edges project axially beyond the drill bit body and radially overlap one another. The outer insert has an outer insert corner and a secondary cutting edge perpendicular to the main cutting edge that projects radially beyond the circumference of the drill bit body. To permit burr-free through-drilling, the main cutting edge of the outer insert is subdivided in its longitudinal extent into a radially inner working section and a rectilinear peeling section adjoining the working section and extending to the outer insert corner. The sections enclose a setting angle of  $95^{\circ}$  to  $120^{\circ}$ . The peeling section is set at a positive setting angle of  $72^{\circ}$  to  $87^{\circ}$ .